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Meson spectroscopy at increasing temperatures using anisotropic ensembles

Wednesday 28 July 2021 07:30 (15 minutes)

We will show mesonic ground masses at increasing temperatures for different flavour structures and operators. The mass extraction is carried out using a fitting procedure on anisotropic thermal correlation functions. We use FASTSUM collaboration thermal ensembles corresponding to an anisotropy of $\xi = 3.5 = a_\tau/a_s$.

Using the meson masses as a function of the temperature, we aim to explore the restoration of chiral $SU(2)_A$ and $U(1)_A$ symmetries in QCD.

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